

# High Speed Rail (Crewe – Manchester)

# **Background information and data**

# **Ecology and biodiversity** BID EC-008-00001

# Ecological baseline data - reptiles

# HS2

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High Speed Two (HS2) Limited has been tasked by the Department for Transport (DfT) with managing the delivery of a new national high speed rail network. It is a non-departmental public body wholly owned by the DfT.

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A report prepared for High Speed Two (HS2) Limited:

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#### Background Information and Data Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

# Contents

Intro	oduction	2
Rept	tiles	3
2.1	Methodology	3
2.2	Deviations, constraints and limitations	3
2.3	Baseline	5
Refe	erences	47
	<b>Rept</b> 2.1 2.2 2.3	2.2 Deviations, constraints and limitations

## Tables

Table 1: Summary of locations where requirement for reptile survey was identified	
but no access was available for survey	4
Table 2: Summary of reptile survey work undertaken in MA01 to MA08	8

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

# **1** Introduction

- 1.1.1 This report presents a summary of the baseline data relating to reptiles.
- 1.1.2 Baseline data have been collected for the Proposed Scheme in relation to the following community areas (CA):
  - Hough to Walley's Green (MA01);
  - Wimboldsley to Lostock Gralam (MA02);
  - Pickmere to Agden and Hulseheath (MA03);
  - Broomedge to Glazebrook (MA04);
  - Risley to Bamfurlong (MA05);
  - Hulseheath to Manchester Airport (MA06);
  - Davenport Green to Ardwick (MA07); and
  - Manchester Piccadilly Station (MA08).
- 1.1.3 This report should be read in conjunction with Map Series EC-07 in the Background Information and Data, Ecology Map Book. As no reptile surveys were carried out within MA08, there is no corresponding mapsheet within the EC-07 Map Series.
- 1.1.4 The Environmental Statement<sup>1</sup> should be referred to for details of the ecology impact assessment.

<sup>&</sup>lt;sup>1</sup> High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <u>https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement</u>.

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

# 2 Reptiles

## 2.1 Methodology

- 2.1.1 Details of the standard methodology utilised for surveys of common reptiles<sup>2</sup> are provided in Technical Note – Ecology and biodiversity – Ecological Field Survey Methods and Standards (FSMS) included in the Environment Impact Assessment Scope and Methodology Report (SMR)<sup>3</sup>.
- 2.1.2 Desktop reptile records have been obtained for areas within 5km of the land required for the construction of the Proposed Scheme from the following sources:
  - Greater Manchester Local Records Centre (GMLRC)<sup>4</sup>;
  - Staffordshire Ecological Record<sup>5</sup>; and
  - rECOrd<sup>6</sup>, Local Biological Records Centre for the Cheshire region.
- 2.1.3 Consultation was undertaken with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust. During this consultation Manchester Biodiversity Partnership and Cheshire Wildlife Trust reported that reptiles are considered largely absent from areas outside of the mosses and meres. This was based on their local knowledge of reptile distribution in MA01 to MA08 and was supported by Lancashire Wildlife Trust. In line with the FSMS, survey effort for reptiles was reduced by only including sites especially suitable for reptiles, i.e. with a higher proportion of positive habitat variables as listed in the FSMS or where sites with less suitable habitat were adjacent to historic records or positive survey results.

## 2.2 Deviations, constraints and limitations

- 2.2.1 At sites where the risk of theft, potential disturbance of refugia or injury to public or livestock was considered to be high, for example on publicly accessible sites or those with livestock, only roofing felt was used rather than a 50:50 split of metal and roofing felt, as roofing felt is less likely to cause injury to public or livestock.
- 2.2.2 Further deviations to the standard methodology were as follows:

<sup>&</sup>lt;sup>2</sup> The two rare reptile species occurring in the UK do not occur in the area through which HS2 Phase 2b passes.

<sup>&</sup>lt;sup>3</sup> High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Environmental Impact Assessment Scope and Methodology Report*, Volume 5, Appendix CT-001-00001. Available online at: <a href="https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement">https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement</a>.

 <sup>&</sup>lt;sup>4</sup> Greater Manchester Local Records Centre. Available online at: <u>https://www.gmwildlife.org.uk/</u>.
<sup>5</sup> Staffordshire Ecological Record, *The Ecological Database for Staffordshire*. Available online at:

http://www.staffs-ecology.org.uk/html2015/index.php?title=Main\_Page.

<sup>&</sup>lt;sup>6</sup> rECOrd, Local Biological Records Centre serving Cheshire. Available online at: <u>http://www.record-lrc.co.uk/</u>.

#### Background Information and Data Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

- an extension to the survey period to include October 2018 was implemented. October surveys were undertaken during suitable weather conditions and ahead of the onset of hibernation. This deviation enabled surveys to be carried out during suitable weather conditions in October 2018;
- the FSMS states that seven survey visits with no reptiles recorded are required to assume absence of reptiles. In MA01 to MA08, consultees (Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, see Section 2.1) have confirmed that reptiles are considered to be largely absent from the study area apart from in the mosses and meres. This has been confirmed by the results of completed surveys (reptile presence confirmed in less than 5% of the sites subject to full surveys outside of the mosses and meres). Therefore, where it has not been possible to complete seven visits due to access restrictions but at least four visits have been completed and, providing no positive survey results or desk study records exist in the vicinity of the site, reptiles have been assumed to be absent; and
- some surveys were affected by temperatures being too high, or by refugia having been disturbed. In these cases, repeat surveys were carried out and more than seven survey visits were carried out on some sites.

## Survey limitations and assumptions

- 2.2.3 Scoping of suitable reptile sites involved site visits only where access was available. At a small number of sites, access was revoked and a complete set of baseline data could not be collected. These are described in this report as 'partially complete'. Of these, where the majority of visits (four or more) were undertaken and no reptiles were recorded in adjacent sites, reptiles are assumed absent. Where fewer than four visits have been undertaken, a precautionary approach has been applied and reptiles assumed present on the basis of suitable habitat and proximity to known records.
- 2.2.4 Despite the presence of suitable reptile habitat, reptile surveys were not undertaken at several sites due to lack of access during the survey season. These sites are presented in Table 1 and on accompanying Ecology Map Series EC-07.

Ecology survey code	Location	Centroid OS grid reference	Description of proposed survey location	CA	Approximate distance from the land required for the construction of the Proposed Scheme (m) and orientation
CH452896- U204181_L5334_ RE2	Wimboldsley Grange, Nantwich Road, Wimboldsley, Middlewich	SJ67996332	Dairy farm with improved grassland, broadleaved woodland, hedgerows,	MA02	Within

# Table 1: Summary of locations where requirement for reptile survey was identified but no access was available for survey

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

Ecology survey code	Location	Centroid OS grid reference	Description of proposed survey location	CA	Approximate distance from the land required for the construction of the Proposed Scheme (m) and orientation
			ponds and scattered scrub.		
CH449513_L588 6_RE2	Land at Dairy House Farm, Stanthorne, Middlewich	SJ68766506	Agricultural land - pastoral field sown with Italian rye grass.	MA02	Within
CH642507_L209 54_RE1	Land south of Glaziers Lane, Culcheth, Warrington	SJ64859440	Small parcel of agricultural land with scattered trees.	MA05	85m south
MAN128527_L21 075_RE1	The Bungalow, Sandy Lane, Lowton, Warrington	SJ62929828	Rural property with garden and several fields used for grazing sheep and hay making.	MA05	Within
MAN128527 _L21133_RE1	Cheetham Fold Farm, Sandy Lane, Lowton, Warrington	SJ63079830	Rural property with garden and several fields used for grazing sheep and hay making.	MA05	1m east
GM48980_L5488 _RE1	Land north of Lightshaw Lane, Warrington	SJ61379966	Improved/semi- improved grassland with ditches ponds and scrub.	MA05	Within

## 2.3 Baseline

## **Desk study results**

2.3.1 Desk study records identified all four common species, adder (*Vipera berus*), common lizard (*Zootoca vivipara*), grass snake (*Natrix helvetica*) and slow worm (*Anguis fragilis*), as present within the study area.

## Hough to Walley's Green (MA01)

2.3.2 No reptile desk study records were identified within the land required for the construction of the Proposed Scheme within MA01. Seven grass snake records were identified within 5km of the land required for the construction of the Proposed Scheme. No records for other reptile

#### Background Information and Data Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

species were identified. The grass snake records were in Betley (1), Wybunbury (4), Coppenhall (1), and Maw Green (1). The closest of these to the land required for the construction of the Proposed Scheme, was in Coppenhall, approximately 620m to the south-east.

## Wimboldsley to Lostock Gralam (MA02)

2.3.3 No reptile desk study records were identified within the land required for the construction of the Proposed Scheme within MA02. Thirteen grass snake records were identified within 5km of the land required for the construction of the Proposed Scheme, the majority of which were from the sewage works in Winsford, approximately 1.8km west. No records for other reptile species were identified within 5km of the land required for the construction of the Proposed Scheme.

## Pickmere to Agden and Hulseheath (MA03)

2.3.4 One reptile record was identified within the land required for the construction of the Proposed Scheme within MA03, a common lizard, most likely in the margin of the M56 close to Agden House. One additional record was identified 2.6km west of the land required for the construction of the Proposed Scheme adjacent to the M56 in Primrose Hill.

## **Broomedge to Glazebrook (MA04)**

2.3.5 Two common lizard and one grass snake records were identified within the land required for the construction of the Proposed Scheme within MA04. These were adjacent to the south-east boundary of Holcroft Moss adjacent to MA05. Sixteen additional records for grass snake (1), common lizard (12), and slow worm (3) were recorded within 5km of the land required for the construction of the Proposed Scheme in MA04. The closest of these was a record of common lizard 990m from the land required for the construction of the Proposed Scheme in MA04. The closest of the Proposed Scheme. In addition, 36 records of common lizard were recorded on Holcroft Moss, located adjacent to the northern boundary of MA04 in MA05. These are included in MA05 below.

## **Risley to Bamfurlong (MA05)**

2.3.6 One common lizard record was identified within the land required for the construction of the Proposed Scheme within MA05, located at Holcroft Moss. In total, 187 records were identified within 5km of the land required for the construction of the Proposed Scheme in MA05. These were for adder (98), grass snake (16), common lizard (64) and slow worm (9). Thirty-six of these records were for common lizard from within Holcroft Moss, adjacent to the land required for the construction of the Proposed Scheme.

## Hulseheath to Manchester Airport (MA06)

2.3.7 No reptile desk study records were identified within the land required for the construction of the Proposed Scheme within MA06. One common lizard record was identified 3.7km

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

south-east and one slow worm 3.9km north of the land required for the construction of the Proposed Scheme.

## **Davenport Green to Ardwick (MA07)**

2.3.8 No reptile desk study records were identified within the land required for the construction of the Proposed Scheme within MA07. Seventeen reptile records were identified within 5km of the land required for the construction of the Proposed Scheme including 14 slow worm and three grass snake. The closest record to the land required for the construction of the Proposed Scheme was a grass snake located approximately 670m west.

## **Manchester Piccadilly Station (MA08)**

2.3.9 No reptile desk study records were identified within the land required for the construction of the Proposed Scheme or within 5km of it in MA08.

## **Field study results**

- 2.3.10 Details of the locations where reptile surveys were conducted, and associated survey results, are provided in Table 2 and accompanying Ecology Map Series EC-07. Sites subject to a walkover survey and subsequently scoped out are also listed.
- 2.3.11 A review of aerial photography suggested that many areas appeared suitable for supporting reptiles; however, when ground-truthed during the field surveys, the quality, connectivity and suitability of habitats for reptile species was generally poor across MA01 to MA08. This judgement was based on an observed lack of field margins/headland, intense grazing pressure and/or few areas of permanently undisturbed habitat. The connectivity through the landscape for grass snake is provided by the various waterways, roadside verges and existing rail corridors that cross the landscape.
- 2.3.12 One hundred and ninety one sites were subject to reptile habitat assessment. A total of 55 sites were identified for refugia survey and surveys were completed at 30 of these sites. Surveys were partially completed at 25 sites where access became unavailable or surveys were abandoned due to repeated theft or disturbance of refugia. One site was identified for refugia survey but access was refused. Surveys were undertaken between 1 September 2017 and 26 September 2019.
- 2.3.13 Of the 55 sites identified for refugia survey, reptiles were recorded and confirmed as present at two. A low population of slow worm was recorded in MA01 and a low population of common lizard was recorded in MA05. Reptiles were considered likely to be absent from 51 of the surveyed sites and reptile presence was assumed at two sites where surveys were partially complete with fewer than four visits as it is considered that absence cannot be assumed without at least four survey visits. In addition, reptiles were assumed to be present at one site where there was anecdotal evidence of reptiles but no access to the site was available.

#### Background Information and Data Ecology and biodiversity

BID EC-008-00001 Ecological baseline data – reptiles

#### Table 2: Summary of reptile survey work undertaken in MA01 to MA08

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH246162_L1 5903_RE1_020 817	13 Broughton Road, Crewe CW1 4NW	SJ70265744	Refugia survey	7 September 2017	26 October 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH437357_L1 6111_RE1_310 717	Land on the west and east sides of Broughton Road, Coppenhall, Crewe	SJ70265757	Refugia survey	1 September 2017	25 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH121035_L1 5830_RE1_010 817	Land to the west of Broughton Road, Coppenhall	SJ70155771	Refugia survey	20 September 2017	9 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH324349_L1 5891_RE1_210 917	Land on the west side of Mablins Lane, Crewe	SJ69655776	Walkover only	21 September 2017	21 September 2017	1	Habitat assessment only - scoped out.	MA01	311m west
CH589878_L1 6026_RE1_010 817	Land lying to the west of Broughton Road, Crewe	SJ70235794	Refugia survey	6 September 2017	10 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within

<sup>&</sup>lt;sup>7</sup> Peak adult count of each species is listed.

<sup>&</sup>lt;sup>8</sup> Classification criteria in line with guidance from: Herpetofauna Groups of Britain and Ireland (1998), *Evaluating local mitigation/translocation programmes: Maintaining Best Practice and Lawful Standards*, HGBI advisory notes for Amphibian and Reptile Groups (ARGs), HGBI, c/o Froglife, Halesworth, unpublished.

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH81069_L15 765_RE1_2509 17	Land on the east side of Broughton Road, Crewe	SJ70375803	Refugia survey	13 September 2018	18 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	16m west
CH88142_L16 182_RE1_2509 17	Land on the south-east side of Parkers Road and the south-west side of Broughton Road, Crewe	SJ70195802	Refugia survey	25 September 2018	26 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH45715_L16 198_RE1_0211 17	Moss Farm, Broughton Road, Crewe	SJ70495806	Refugia survey	13 September 2018	18 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH519167_L1 6018_RE1_160 118	25 Kents Lane, Crewe CW1 4PX	SJ70225836	Walkover only	16 January 2018	16 January 2018	1	Habitat assessment only - scoped out.	MA01	59m east
CH615623_L6 328_RE1_1601 18	Land north of Parkers road	SJ70205848	Walkover only	16 January 2018	16 January 2018	1	Habitat assessment only - scoped out.	MA01	41m east
CH135902_L1 6033_RE1_010 218	Land lying to the north- west of Warmingham Road, Monks Coppenhall	SJ70375844	Walkover only	1 February 2018	1 February 2018	1	Habitat assessment only - scoped out.	MA01	141m east
CH230277_L5 895_RE1_1310 17	Land on the south side of Grass Road, Leighton	SJ69685862	Refugia survey	13 September 2018	24 October 2018	6	Reptiles assumed absent as majority of survey visits completed and	MA01	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
							based on local expert knowledge.		
CH439836_L1 5955_RE1_280 917	Land to the north-west side of Warmingham Road, Crewe	SJ70415864	Refugia survey	18 September 2018	25 July 2019	8	Presence/absence survey conducted - reptiles assumed absent.	MA01	110m east
CH252879- CH616525_L5 046_RE1_3107 17	Land at Minshull Vernon, Crewe, White House, Moss Lane, Minshull Vernon	SJ69495877	Refugia survey	12 June 2018	18 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH380329_L1 6125_RE1_260 917	Farm Cottage, Warmingham Road, Warmingham, Crewe, land on the west side of Warmingham Road, Warmingham, Crewe	SJ70545880	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	Within
CH179051_L4 887_RE1_2609 17	Land on the south side of Moss Lane, Minshull Vernon	SJ69215888	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	59m west
CH588855_L4 733_RE1_2807 17	Spring Farm, Moss Lane, Minshull Vernon, Crewe, CW1 4RJ	SJ69675893	Refugia survey	7 September 2017	26 October 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH453005_L1 6137_RE1_260 917	Moss Cottage, Moss Lane, Warmingham, Crewe CW1 4PW	SJ70295893	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	Within
CH645921_L1 6295_RE1_250 917	Land on the east side of Middlewich Road, Bradfield Green, Crewe	SJ68675911	Walkover only	25 September 2017	25 September 2017	1	Habitat assessment only - scoped out.	MA01	89m west
CH496892_L1 6230_RE1_260 917	Moss Lane Farm, Moss Lane, Warmingham, Crewe, CW1 4PW	SJ70495914	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	Within
CH597265_L5 956_RE1_0208 17	Moss Farm, Moss Lane, Warmingham, Crewe, CW1 4PW	SJ69905909	Refugia survey	7 September 2017	2 October 2018	10	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH645921_L1 6295_RE1_260 917	Land on the east side of Middlewich Road, Bradfield Green, Crewe	SJ69175917	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	89m west
CH616525_L5 490_RE1_1210 17	Land at Moss Lane, Minshull Vernon, Crewe CW1 4RL and land west of railway line, Crewe	SJ69375935	Refugia survey	7 September 2017	20 June 2018	7	Presence/absence survey conducted. One slow worm peak count (low population).	MA01	Within
CH483025_L1 6140_RE1_260 917	Land lying to the west of Drury Lane, Warmingham, Crewe	SJ70095975	Walkover only	26 September 2017	26 September 2017	1	Habitat assessment only - scoped out.	MA01	255m east

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH445194- CH606449_L5 379_RE1_1608 18	Land at Parkfields Farm, Minshull Vernon, Middlewich, CW1 4RD	SJ69306074	Walkover only	3 June 2018	3 June 2018	1	Habitat assessment only - scoped out.	MA01	Within
CH596735- CH616525_L3 653_RE1_2308 18	Agricultural land (The Cabin, Moat House Farm)	SJ68576066	Walkover only	23 August 2018	23 August 2018	1	Habitat assessment only - scoped out.	MA01	Within
CH286640- CH616525_L5 339_RE1_0108 17	Land at Minshull Vernon, Crewe	SJ69236133	Walkover only	1 August 2017	1 August 2017	1	Habitat assessment only - scoped out.	MA01	Within
CH372436_L1 5997_RE1_241 017	Newfield Hall, Middlewich Road, Minshull Vernon, Middlewich CW10 0LR	SJ68366170	Walkover only	24 October 2017	24 October 2017	1	Habitat assessment only - scoped out.	MA01	13m south
CH438116- CH616525_L5 409_RE1_0108 17	Land at Park Hall Farm, Minshull Vernon, Crewe	SJ69176187	Refugia survey	13 September 2017	24 October 2018	10	Presence/absence survey conducted - reptiles assumed absent.	MA01	Within
CH556853_L5 044_RE1_1210 17	Road at Nantwich Road, Middlewich, Wimboldsley Hall, Wimboldsley, Middlewich, CW10 0LW	SJ68566204	Walkover only	12 October 2017	12 October 2017	1	Habitat assessment only - scoped out.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH643381_L5 856_RE1_0610 17	The Verdin Arms, Wimboldsley, Middlewich, CW10 0LW	SJ68326213	Refugia survey	20 June 2018	9 October 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH628338_L1 5879_RE1_030 817	Land to the south-east of Middlewich Road, Minshull Vernon, Crewe, Railway	SJ68666206	Refugia survey	1 September 2017	20 September 2017	4	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH453851_L5 487_RE1_1210 17	Land at the back of Rose Cottages, Nantwich Road, Wimboldsley, Middlewich, CW10 0LW, Land lying south-east of Nantwich Road, Crewe and land on the south-west side of Middlewich Road, Minshull Vernon, Crewe	SJ69016232	Walkover only	12 October 2017	12 October 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH556853_L5 320_N/A_1210 17	Wimboldsley Hall Farm, Wimboldsley, Middlewich, CW10 0LW	SJ68906259	Walkover only	12 October 2017	12 October 2017	1	Habitat assessment only - scoped out.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH452896_L5 334_RE1_0509 17	Wimboldsley Grange, Nantwich Road, Wimboldsley, Middlewich, CW10 0LN	SJ67996332	Walkover only	5 September 2017	5 September 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH483359_L5 340_RE1_0509 17	Land to the south of Clive Back Lane, Clive Green, Winsford	SJ67836386	Walkover only	5 September 2017	5 September 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH487718_L5 394_RE1_2807 17	Agricultural land lying to the west of Nantwich Road, Stanthorne, Middlewich, Land lying to the west of Nantwich Road, Stanthorne, Middlewich	SJ68476407	Refugia survey	1 September 2017	9 October 2018	9	Presence/absence survey conducted - reptiles assumed absent.	MA02	Within
CH588305_L4 849_RE1_2002 18	Part of Shropshire Union Canal lying to the west of Nantwich Road, Wimboldsley, Middlewich	SJ67746423	Walkover only	20 February 2018	20 February 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH613208_L5 189_RE1_1310 17	Land on the south side of Clive Green Lane, Stanthorne, Middlewich and Land on the west side of Leahead Cottages, Nantwich Road, Stanthorne, Middlewich CW10 0LJ	SJ68536458	Refugia survey	13 October 2017	30 October 2018	4	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH342164_L1 6142_RE1_250 917	Land on east side of Nantwich Road, Stanthorne	SJ68946490	Walkover only	25 September 2017	25 September 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH613208_L5 333_RE1_1310 17	5 to 8 Stanthorne Park Mews, Clive Green Lane, Stanthorne, Middlewich, CW10 0NZ, Stanthorne Parks, Clive Green Lane, Stanthorne, Middlewich, CW10 0NA and Stanthorne Park Mews, Clive Green Lane, Stanthorne, Middlewich, CW10 0NZ	SJ68186468	Refugia survey	13 June 2018	09 October 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH449513_L5 886_RE1_0308 17	Land at Dairy House Farm, Stanthorne, Middlewich	SJ68766506	Walkover only	3 August 2017	3 August 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH203954_L5 382_RE1_1210 17	4 Seaton Street, Winsford CW7 3NW, Yew Tree Farm, Coal Pit Lane, Stanthorne, Middlewich, CW10 9JS	SJ68376585	Walkover only	12 October 2017	12 October 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH5202_L538 1_RE1_070817	Stanthorne Villa, Birch Lane, Stanthorne, Middlewich, CW10 9JR	SJ68516627	Walkover only	7 August 2017	7 August 2017	1	Habitat assessment only - scoped out.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH249792_L1 5810_RE1_270 917	Birch Lane Cottage, Birch Lane, Stanthorne	SJ68886660	Refugia survey	12 September 2018	26 October 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA02	Within
CH612701_L5 081_RE1_2803 18	Land at Middlewich Road, Stanthorne, Middlewich	SJ69276654	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH612701_L5 140_RE1_3101 18	Land at Middlewich Road, Stanthorne, Middlewich, Road Birch Lane, Stanthorne	SJ69006655	Walkover only	31 October 2018	31 October 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH234515_L1 5799_RE1_270 917	Petanna, Birch Lane, Stanthorne, Middlewich CW10 9JR, Stanthorne House, Middlewich Road, Stanthorne, Middlewich CW10 9JB	SJ68856669	Walkover only	27 September 2017	27 September 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH446766- CH614893_L5 405_RE1_0802 18	Land at Bostock Road, Bostock, Middlewich and land at Winsford (referred to below as the mines and minerals) CW10 9JF	SJ68406765	Walkover only	8 February 2018	8 February 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH446766- CH61489_L54 74_RE1_29031 8	Woodland (Oak Wood, Middlewich) (Bostock Road, A533) CW10 9JF	SJ68076778	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA02	331m east

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH446766- CH614832_L5 429_RE1_3110 17	Land at Bostock Road, Bostock, Middlewich and land at Winsford (referred to below as the mines and minerals), CW10 9JN	SJ67926850	Refugia survey	25 September 2017	24 October 2018	9	Presence/absence survey conducted - reptiles assumed absent.	MA02	Within
CH446766_L4 782_RE1_1801 18	Land at Winsford, Land on the east side of Trent and Mersey Canal, Byley, Middlewich	SJ68556875	Walkover only	18 January 2018	18 January 2018	1	Habitat assessment only - scoped out.	MA02	75m east
CH446766- CH515800- CH534892_L5 061_RE1_0609 17	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich, CW9 7SQ, land at Winsford (referred to below as the mines and minerals)	SJ68236888	Walkover only	6 September 2017	6 September 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH446766- CH515800- CH534892_L5 497_RE1_2308 17	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich, CW9 7SQ, land at Winsford (referred to below as the mines and minerals) and Land at Winsford (referred to below as the mines and minerals) CW9 7SQ	SJ68536931	Walkover only	23 August 2017	23 August 2017	1	Habitat assessment only - scoped out.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH446766- CH534892_L5 171_RE1_0612 17	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich, CW9 7SQ and land at Winsford (referred to below as the mines and minerals) CW10 9LB	SJ68476966	Walkover only	6 December 2017	6 December 2017	1	Habitat assessment only - scoped out.	MA02	18m west
CH446766_L4 974_RE1_0705 18	Land at Winsford, CW9 7SQ, The Secret Garden and adjoining Paddock at Whatcroft Hall, Whatcroft CW9 7SQ	SJ68126812	Walkover only	7 May 2018	7 May 2018	1	Habitat assessment only - scoped out.	MA02	59m west
CH446766- CH515800- CH534892_L4 054_RE1_0708 18	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich CW9 7SQ and land at Winsford	SJ68517002	Walkover only	7 August 2018	7 August 2018	1	Habitat assessment only - scoped out.	MA02	12m east
CH446766- CH515800- CH534892_L5 021_RE1_0108 17	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich, CW9 7SQ, land at Winsford (referred to below as the mines and minerals) and land at Winsford (referred to below as the mines and minerals), CW9 7SQ	SJ68407008	Walkover only	1 August 2017	1 August 2017	1	Habitat assessment only - scoped out.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	СА	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH446766- CH515800- CH534892_L5 101_RE1_0108 17	Dairy Farm, Whatcroft Hall Lane, Whatcroft, Northwich, CW9 7SQ	SJ68187017	Walkover only	1 August 2017	1 August 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH635992_L1 7879_RE1_101 217	Land lying to the east of Yew Tree Farm, Davenham Road, Whatcroft, Northwich CW9 7RZ	SJ67977130	Walkover only	10 December 2017	10 December 2017	1	Habitat assessment only - scoped out.	MA02	297m west
CH552565_L6 101_RE1_1402 18	Agricultural land and hedgerows (Davenham Road)	SJ68217153	Walkover only	14 February 2018	14 February 2018	1	Habitat assessment only - scoped out.	MA02	28m west
CH575521_L1 7914_RE1_031 017	Park Farm Marina, Davenham Road, Billinge Green, Northwich	SJ68137162	Walkover only	3 October 2017	3 October 2017	1	Habitat assessment only - scoped out.	MA02	15m west
CH333308_L6 083_RE1_1601 18	4 Pear Tree Farm Cottage, Davenham Road, Billinge Green, Northwich and parking space CW9 7RY and Gadbrook Farm, Davenham Road, Rudheath, Northwich	SJ68637154	Walkover only	16 January 2018	16 January 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH505004_L6 247_RE1_2609 17	Agricultural land, Lach Dennis	SJ68927186	Refugia survey	8 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
							completed and based on local expert knowledge.		
CH402012- CH505004_L5 153_RE1_3101 18	Land on the east and west side of King Street, Rudheath, Northwich	SJ68677205	Walkover only	31 January 2018	31 January 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH403450_L5 271_RE1_0102 18	Distribution Centre, WM Morrison Supermarkets plc, King Street, Rudheath, Northwich, CW9 7WA and land on the south-west side of King Street, Rudheath, Northwich	SJ68327213	Walkover only	1 February 2018	1 February 2018	1	Habitat assessment only - scoped out.	MA02	90m west
CH505004_L5 424_RE1_2609 17	Land on the east and west sides of King Street, Rudheath, Northwich	SJ69357202	Refugia survey	30 May 2018	27 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH345680_L1 7930_RE1_041 017	Land on the east side of Griffiths Road, Lostock, Northwich	SJ68737326	Refugia survey	1 June 2018	29 August 2018	3	Reptiles assumed present as surveys not completed.	MA02	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH345680_L1 7917_RE1_041 017	Land on the east side of Griffiths Road, Lostock, Northwich	SJ68417332	Walkover only	4 October 2017	4 October 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH398472- CH508081_L4 618_RE1_2201 18	Land and Buildings on the south-west side of Birches Lane, Lostock Green, Northwich	SJ69467352	Walkover only	22 January 2018	22 January 2018	1	Habitat assessment only - scoped out.	MA02	14m east
CH345680_L1 7925_RE1_041 017	Land on the east side of Griffiths Road, Lostock, Northwich	SJ68707367	Walkover only	4 October 2017	4 October 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH502714_L1 7926_RE1_240 118	Land on the east side of Griffiths Road, Lostock Gralam, Northwich	SJ68847388	Walkover only	24 January 2018	24 January 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH259484_L1 7878_RE1_051 017	Land lying to the west of Station road, Lostock Gralam, Northwich	SJ69037458	Walkover only	5 October 2017	5 October 2017	1	Habitat assessment only - scoped out.	MA02	22m north-east
CH315313_L5 910_RE1_1012 17	Land on the east and west sides of Moss Lane, Lostock Gralam	SJ70387462	Walkover only	10 December 2017	10 December 2017	1	Habitat assessment only - scoped out.	MA02	Within
CH449387_L6 086_RE1_2103 18	Industrial land and road surrounding Cheshire Business Park	SJ69717517	Walkover only	21 March 2018	21 March 2018	1	Habitat assessment only - scoped out.	MA02	Within
CH187305_L5 965_RE1_2109 17	Millwood, Cranage Villas, Chester Road, Plumley, Knutsford, WA16 0UB and	SJ70437553	Walkover only	21 September 2017	21 September 2017	1	Habitat assessment only - scoped out.	MA02	38m east

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
	land on the north-east side of Ascol Drive and on the south-east side of Chester Road, Plumley, Knutsford								
CH134605_L5 935_RE1_2009 17	Land on the north-west side of Manchester Road, Lostock Gralam, Plumley	SJ70067565	Refugia survey	25 April 2018	30 May 2018	3	Reptiles assumed present as surveys not completed.	MA02	Within
CH344686_L5 011_RE1_0110 17	Home Farm, Linnards Lane, Wincham, Northwich	SJ70057592	Refugia survey	9 May 2018	27 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH499496_L5 787_RE1_2009 17	Land on the north-west side of Chester Road, Plumley, Knutsford and land on the south side of Linnards Lane, Wincham, River	SJ70237596	Refugia survey	8 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA02	Within
CH570938_L5 150_RE1_1409 17	Frog Lane Farm, Pickmere, Beech House, Hall Lane, Pickmere	SJ69487813	Walkover only	14 September 2017	14 September 2017	1	Habitat assessment only - scoped out.	MA03	417m south
CH570938_L5 321_RE1_1409 17	Frog Lane Farm, Pickmere, Beech House, Hall Lane, Pickmere	SJ69647860	Walkover only	14 September 2017	14 September 2017	1	Habitat assessment only - scoped out.	MA03	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH623030_L6 330_RE1_2103 18	Agricultural land to the north of Budworth Road	SJ70107924	Walkover only	21 March 2018	21 March 2018	1	Habitat assessment only - scoped out.	MA03	Within
CH131342_L5 174_RE1_0908 17	Land adjoining Hollowood Farm and land known as Tabley Wood, Old Hall Lane, Tabley Superior, Land lying to the north- west of Old Hall Lane, Over Tabley, Knutsford	SJ71377997	Walkover only	9 August 2017	9 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH258462_L5 350_RE1_1309 17	Hollowood Farm, Over Tabley, Knutsford and land adjoining Hollowood Farm and Tabley Wood lying to the north-west of Old Hall Lane, Tabley Superior	SJ71078012	Walkover only	13 September 2017	13 September 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH275897_L5 249_RE1_1309 17	Land to the south-west side of Hollowood Farm, Tabley, Knutsford	SJ70408019	Walkover only	13 September 2017	13 September 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH131342_L5 118_RE1_0509 17	Land adjoining Hollowood Farm and Tabley Wood to the north-west of Old Hall Lane, Tabley Superior	SJ70748022	Walkover only	5 September 2017	5 September 2017	1	Habitat assessment only - scoped out.	MA03	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH434587_L5 232_RE1_1309 17	Hollowood Farm, Over Tabley, Knutsford, Land adjoining Hollowood Farm and Tabley Wood to the north-west of Old Hall Lane, Tabley Superior	SJ70708043	Walkover only	13 September 2017	13 September 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH400937_L4 774_RE1_1210 17	Goodiers Green Farm, Winterbottom Lane, Mere, Cheshire WA16 0QG	SJ71208206	Refugia survey	9 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA03	1m west
CH575612- CH612686_L2 1091_RE1_300 817	Agricultural land and Pylon and land at Bowden View Farm, Bowden View Lane, Mere, Knutsford, WA16 0QD	SJ71718318	Walkover only	30 August 2017	30 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
U200964_L62 56_RE1_30081 7	Agricultural land lying north-west of Hulseheath Lane, Knutsford, Land adjoining Bowden View Farm, Bowden View Lane, Mere, Knutsford, WA16 0QD	SJ71948364	Walkover only	30 August 2017	30 August 2017	1	Habitat assessment only - scoped out.	MA03	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
U200940_L54 70_RE1_23081 7	Land lying south of Peacock Lane, Knutsford	SJ71728404	Refugia survey	9 May 2018	27 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA03	Within
CH448367_L4 985_RE1_1608 17	Moss House Farm, Thowler Lane, Millington, Altrincham WA14 3RJ	SJ71928443	Walkover only	16 August 2017	16 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
U201013_L60 96_RE1_22081 7	Agricultural land lying east of Moss Lane, Lymm	SJ71408461	Walkover only	22 August 2017	22 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH289151_L5 779_RE1_1008 17	Boothbank Cottage, Booth Bank Lane, Macclesfield, WA14 3RG, land on the north west side of Booth Bank Cottage, Booth Bank Lane, Agden and land on the north-west side of Boothbank Lane, Agden	SJ72168493	Walkover only	10 August 2017	10 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH410526_L2 1122_RE1_220 817	Land on the north-west side of Booth Bank Cottage, Booth Bank Lane, Agden and land on the north-west side of Boothbank Lane, Agden	SJ72048489	Walkover only	22 August 2017	22 August 2017	1	Habitat assessment only - scoped out.	MA03	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH308879_L2 1048_RE1_150 817	Land lying north and south of Agden Lane, Agden and High Legh	SJ71548498	Refugia survey	10 May 2018	28 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA03	Within
CH409597_L6 036_RE1_1008 17	Land on the north side of Agden Lane, High Legh, WA16 6NY	SJ71628508	Walkover only	10 August 2017	10 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH367059_L2 1102_RE1_021 117	Nags Head, Chester Road, Macclesfield WA14 3RX and public road (Chester road) and hedgerow	SJ74048539	Walkover only	2 November 2017	2 November 2017	1	Habitat assessment only - scoped out.	MA03	38m north
CH410526_L2 1123_RE1_220 817	Booth Bank Lane, Agden, High Legh, Cheshire East, WA14 3RH	SJ71968491	Walkover only	22 August 2017	22 August 2017	1	Habitat assessment only - scoped out.	MA03	Within
CH410639_L5 880_RE1_2903 18	Land on the north and south sides of Spring Lane, Lymm	SJ71298748	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH250245- CH94931_L53 80_RE1_17011 8	Heatley Farm, Wet Gate Lane, Lymm WA13 9SL and Little Heatley Farm, Heatley, Lymm	SJ71298746	Walkover only	17 January 2018	17 January 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH580019_L5 967_RE1_2103 18	Wet Gate Lane Farm, Wet Gate Lane, Lymm, WA13 9SJ	SJ71508769	Walkover only	21 March 2018	21 March 2018	1	Habitat assessment only - scoped out.	MA04	4m south

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
GM451813- MAN44064_L 5970_RE1_280 318	Agricultural land lying south of Paddock Lane, Warbuton	SJ70878835	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
GM779015_L5 903_RE1_2803 18	Land and buildings on the west side of Bent Lane, Warburton, Lymm and Land at The Bent Farm	SJ70888894	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
GM932657_L6 334_RE1_0111 18	Land north of Paddock Lane (A6144)	SJ70338925	Walkover only	1 November 2018	1 November 2018	1	Habitat assessment only - scoped out.	MA04	Within
GM932762- MAN140976_ L5473_RE1_29 0318	Land to the west of Warburton Lane, Lymm	SJ70728942	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
GM711551- GM932762_L4 700_RE1_0501 18	Land at Warburton Estate, Warburton, Lymm	SJ70838952	Walkover only	5 January 2018	5 January 2018	1	Habitat assessment only - scoped out.	MA04	Within
GM320678_L5 863_RE1_1503 18	Millbank Hall Farm, Lock Lane, Partington, Manchester, M31 4BS	SJ70978952	Walkover only	15 March 2018	15 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH241489_L5 932_RE1_2703 18	Land on the south-east side of Manchester Road, Hollins Green	SJ70199091	Refugia survey	21 June 2018	5 September 2018	5	Reptiles assumed absent as majority of survey visits	MA04	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
							completed and based on local expert knowledge.		
CH174016_L2 6080_RE1_100 118	Land lying to the west of Bank Street, Glazebrook	SJ70009112	Walkover only	10 January 2018	10 January 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH313259_L2 1032_RE1_070 318	Land to the east of Dam Head Lane, Glazebrook	SJ69359211	Walkover only	7 March 2018	7 March 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH569904_L2 1184_RE1_140 118	Hollingreave Farm, Dam Lane, Rixton, Warrington, WA3 6LE	SJ69119226	Walkover only	14 January 2018	14 January 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH661922_L2 1451_RE1_110 418	Agricultural land lying north of Dam Head Lane, Glazebrook	SJ68849234	Walkover only	11 April 2018	11 April 2018	1	Habitat assessment only - scoped out.	MA04	Within
CH395409- CH401121_L5 934_RE1_1004 18	Church Farm, land on the west side of Glazebrook Lane, Glazebrook, and land to the west of Glazebrook Lane, Glazebrook	SJ69189253	Walkover only	10 April 2018	10 April 2018	1	No access for presence/absence survey. Reptiles assumed present.	MA04	Within
CH198525- CH558854_L2 1219_RE1_200 318	Beechfield Farm, Moss Lane, Rixton, Warrington, WA3 6AD	SJ68699285	Walkover only	20 March 2018	20 March 2018	1	Habitat assessment only - scoped out.	MA04	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH198535- CH414713- U201189_L21 396 _RE1_200619	Agricultural land and part of woodland lying south of M62, Birchwood, Warrington	SJ68519256	Refugia survey	20 June 2019	26 September 2019	7	Presence/absence survey conducted - reptiles assumed absent.	MA05	Within
CH329686_L2 1217_RE1_070 618	Hanging Birch Farm, Holcroft Lane, Culcheth, Warrington WA3 5AN, land south of the M62, and land south of M62 at Holcroft Moss, Culcheth	SJ67959306	Refugia survey	21 June 2018	19 September 2019	8	Presence/absence survey conducted. 12 common lizard peak count (low population).	MA05	Within
CH319763_L5 068_RE1_0711 18	Land to the east of Birchwood Way, Croft, Warrington, WA3 6BY	SJ68479327	Walkover only	7 November 2018	7 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH510589_L4 979_RE1_3105 18	Land at New Hall Farm, New Hall Lane, Culcheth, WA3 5EE	SJ67059363	Refugia survey	27 June 2018	10 October 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA05	3m east
CH103951_L5 080_RE1_3105 18	Moss Side Farm, Silver Lane, Croft, Warrington	SJ66069397	Refugia survey	22 June 2018	10 October 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA05	Within
CH510589_L5 485_RE1_3105 18	Land at New Hall Farm, New Hall Lane, Culcheth, WA3 5EE	SJ66769401	Refugia survey	22 June 2018	10 October 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH510589_L4 916_RE1_3105 18	Land at New Hall Farm, New Hall Lane, Culcheth, WA3 5EE	SJ84169074	Walkover only	31 May 2018	31 May 2018	1	Habitat assessment only - scoped out.	MA05	Within
SJ65949407C H571149_L21 223_RE1_1403 18	Ratcliffe House Farm, Bent Lane, Culcheth, WA3 5ER	SJ66789455	Walkover only	14 March 2018	14 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH140887_L6 110_RE1_0711 18	91 Wigshaw Lane, Culcheth, Warrington WA3 4AD	SJ64879483	Walkover only	7 November 2018	7 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH96746_L59 38_RE1_05041 8	Blakeley Farm, Wigshaw Lane, Culcheth, Warrington, WA3 4AG and land lying to the south- west of Leigh Golf Course, Kenyon	SJ64229502	Walkover only	05 April 2018	05 April 2018	1	Habitat assessment only - scoped out.	MA05	10m south
CH445123_L2 1168_RE1_180 118	Land to the south-west of Broseley Avenue, Culcheth, Warrington	SJ64379540	Walkover only	18 January 2018	18 January 2018	1	Habitat assessment only - scoped out.	MA05	10m south
CH375511_L2 0988_RE1_071 118	Wilton Grange, 90 Kenyon Lane, Kenyon WA3 4AX	SJ63159588	Walkover only	7 November 2018	7 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH399964_L2 0964_RE1_071 118	Land to the west of Kenyon Lane, Culcheth	SJ63119591	Walkover only	7 November 2018	7 November 2018	1	Habitat assessment only - scoped out.	MA05	42m west

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH382722_L5 099_RE1_0504 18	Land on the east side of Kenyon Lane, Kenyon	SJ63379591	Walkover only	5 April 2018	5 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH103739_L5 159_RE1_0504 18	Land and buildings on the west side of Broseley Lane and land on the east and west of Wilton Lane known as Broseley Hall Farm, Culcheth and Glazebury	SJ64049591	Walkover only	5 April 2018	5 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH382722_L5 132_RE1_0504 18	Land on the east side of Kenyon Lane, Kenyon	SJ63509609	Walkover only	5 April 2018	5 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH103739_L5 136_RE1_0504 18	Land lying south of Wilton Lane, Culcheth, Warrington	SJ84019012	Walkover only	5 April 2018	5 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH626573_L5 173_RE1_0504 18	Land lying south of Wilton Lane, Culcheth, Warrington	SJ63869587	Walkover only	5 April 2018	5 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
CH412504_L5 088_RE1_2903 18	Land on the south side of Wilton Lane, Kenyon	SJ63779639	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
MAN221207_ L5398_RE1_29 0318	Dickinsons Farm, Kenyon Lane, Lowton, Warrington, WA3 1LG	SJ63159655	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	СА	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH434602_L5 331_RE1_2903 18	Birchalls Farm, Wilton Lane, Culcheth, Warrington, WA3 4BA	SJ63709678	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM754517_L2 1114_RE1_200 218	Road (Enterprise Way), V B G Ltd, Enterprise Way, Lowton, Warrington, WA3 2AG	SJ64879483	Walkover only	20 February 2018	20 February 2018	1	Habitat assessment only - scoped out.	MA05	Within
MAN133176_ L6238_RE1_10 0418	Woodland and agricultural land (west of Cheetham Fold Farm, Sandy Lane, Lowton, Warrington)	SJ63079799	Walkover only	10 April 2018	10 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
MAN171798_ L5909_RE1_19 0318	Land to the east of Garton Drive, Lowton, Warrington	SJ62739796	Refugia survey	5 June 2018	5 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA05	Within
GM886606_L5 890_RE1_1204 18	Land and buildings at 2 Garton Common, Slag Lane, Lowton, Warrington, WA3 1BY and Warren Croft Farm, Garton Common, Lowton, Warrington, WA3 1BY	SJ62629820	Walkover only	12 April 2018	12 April 2018	1	Habitat assessment only - scoped out.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
GM 216299_L601 7_RE1_081118	Land at the back of 2 Garton Common, Slag Lane, Lowton	SJ62499828	Walkover only	8 November 2018	8 November 2018	1	Habitat assessment only - scoped out.	MA05	42m south-east
GM785913_L5 199_RE1_2802 18	Red House Farm, Sandy Lane, Lowton, Warrington, WA3 1BD	SJ62789835	Walkover only	28 February 2018	28 February 2018	1	Habitat assessment only - scoped out.	MA05	Within
U202318- U202511_L21 333_RE1_1004 18	Land south of Byrom Lane	SJ62919850	Walkover only	10 April 2018	10 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM482769_L4 205_RE1_0811 18	Land lying to the west of Slag Lane, Lowton, WA3 1BS	SJ62499883	Walkover only	8 November 2018	8 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM153253_L5 103_RE1_2903 18	Pegasus Arabians, Lower Rothwells Farm, Lowton Road, Golborne	SJ61539904	Walkover only	29 March 2018	29 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM344974- GM425997_L6 245_RE1_2803 18	Land on the west side of Wigan Road, Golborne, Warrington	SJ60649936	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM105934_L5 201_RE1_1903 18	Land to the north of Ashton Road, Golborne	SJ60499930	Walkover only	19 March 2018	19 March 2018	1	Habitat assessment only - scoped out.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
GM587528_L5 868_RE1_2803 18	Critchley House, Lightshaw Lane, Lowton, Warrington WA3 1BS	SJ61969931	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM103220_L5 368_RE1_0404 18	Land on the south-west side of Lightshaw Lane, Golborne, Wigan Road Farm, Wigan Road, Golborne, Warrington, WA3 3UF and Windy Bank Farm, Wigan Road, Golborne	SJ61309947	Walkover only	4 April 2018	4 April 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM484980- MAN211851_ L5488_RE1_04 0418	Agricultural land (east of Hillcroft, Lightshaw Lane, Golborne, Warrington WA3 3UH), Hillcroft, Lightshaw Lane, Golborne, Warrington WA3 3UH, land north of Lightshaw Lane, Warrington, land on the north side of Lightshaw Hall, Lightshaw Lane, Golborne, Warrington WA3 3UJ and Lightshaw Hall Farm, Lightshaw Lane, Golborne, Warrington WA3 3UJ	SJ61379966	Walkover only	4 April 2018	4 April 2018	1	Habitat assessment only - scoped out.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
GM425997_L5 285_RE1_2803 18	Balmers Farm, Wigan Road, Golborne, Warrington WA3 3UQ and Public road, verges and public footpaths (03, 25 and 27), (Wigan Road and Aye Bridge Road)	SJ60589977	Walkover only	28 March 2018	28 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM425997_L5 141_RE1_2803 18	Balmers Farm, Wigan Road, Golborne, Warrington WA3 3UQ	SJ60640003	Refugia survey	19 June 2018	27 September 2018	8	Presence/absence survey conducted - reptiles assumed absent.	MA05	Within
GM425997_L4 982_RE1_2703 18	Balmers Farm, Wigan Road, Golborne, Warrington WA3 3UQ	SD60640003	Walkover only	27 March 2018	27 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM425997_L4 980_RE1_2703 18	Balmers Farm, Wigan Road, Golborne, Warrington WA3 3UQ	SD60910006	Walkover only	27 March 2018	27 March 2018	1	Habitat assessment only - scoped out.	MA05	Within
U202766_L21 306_RE1_0811 18	Agricultural land east of Aye Bridge Road	SD60880015	Walkover only	8 November 2018	8 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
U201103_L21 304_RE1_0611 18	Agricultural Land boarded by public road (Warrington Road, A573) to the east, and Hey Brook to the west.	SD60880015	Walkover only	6 November 2018	6 November 2018	1	Habitat assessment only - scoped out.	MA05	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
U201102_L21 303_RE1_0611 18	Hey Brook and land on the West side of Public Road (Warrington Road, A573)	SD60720043	Walkover only	6 November 2018	6 November 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM425997- GM917074_L6 100_RE1_3101 18	Agricultural land, woodland and buildings at Aye Bridge Farm lying west of Aye Bridge Road, Abram	SD60540039	Walkover only	31 January 2018	31 January 2018	1	Habitat assessment only - scoped out.	MA05	Within
GM682479- L21128_RE1_2 70318	Land lying the south-west of Warrington Road, Abram	SD60510154	Walkover only	27 March 2018	27 March 2018	1	Habitat assessment only - scoped out.	MA05	180m east
CH510589_L5 095_RE1_3105 18	Croft, Culcheth, Warrington	SJ66759423	Refugia survey	31 May 2018	10 October 2018	8	Presence/absence survey conducted, reptiles assumed absent.	MA05	Within
CH542392_L5 231_RE1_0408 17	Land on the north and south sides of Castle Mill Lane, Ashley, Altrincham WA15 0QZ	SJ79558357	Walkover only	4 August 2017	4 August 2017	1	Habitat assessment only - scoped out.	MA06	Within
CH480792_L5 149_RE1_0709 17	Chapel House Farm, Castle Mill Lane, Ashley, Altrincham, WA15 0QZ	SJ79318373	Refugia survey	10 May 2018	28 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA06	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH421325_L5 907_RE1_0709 17	Land on the north-west side of Mill Road, Altrincham	SJ79738380	Walkover only	7 September 2017	7 September 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM771626_L5 867_RE1_0709 17	Castle Mill Farm, Mill Lane, Ashley, Altrincham WA15 0RD	SJ79868395	Walkover only	7 September 2017	7 September 2017	1	Habitat assessment only - scoped out.	MA06	Within
CH237195_L4 3289_RE1_040 817	Land on the south-east side of Back Lane, Ashley	SJ78968397	Walkover only	4 August 2017	4 August 2017	1	Habitat assessment only - scoped out.	MA06	Within
CH542392_L5 218_RE1_0408 17	Land on the north and south sides of Castle Mill Lane, Ashley, Altrincham, WA15 0QZ	SJ79558396	Refugia survey	10 May 2018	28 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA06	Within
CH333422_L5 796_RE1_0709 17	Land on the north side of Little Thorns Green Farm, Back Lane, Ashley WA15 0QX, land on the north, south and west side of Castle Mill Lane, Ashley, Altrincham, Lane End Cottages, Castle Mill Lane, Ashley, Altrincham, WA15 0QT. Tanyard Farm, Castle Mill Lane, Ashley, Altrincham, WA15 0QT and Little Thorn Greens	SJ78938403	Refugia survey	11 May 2018	28 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
	Farm, Back Lane, Ashley, Altrincham WA15 0QX								
CH121954_L4 667_RE1_1303 18	Land to the west side of Millington Hall Lane, Millington	SJ72748407	Walkover only	13 March 2018	13 March 2018	1	Habitat assessment only - scoped out.	MA06	19m south-east
GM865079_L5 823_RE1_0609 17	Land adjoining Yew Tree Barn, Sunbank Lane, Ringway, Altrincham, WA15 0PY	SJ79908430	Refugia survey	10 May 2018	28 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
GM354762_L6 041_RE1_0609 17	Lingerfields, Sunbank Lane, Ringway	SJ79988437	Refugia survey	10 May 2018	28 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
CH438356_L5 053_RE1_2308 17	Land on the south side of Boothbank Lane	SJ72408440	Walkover only	23 August 2017	23 August 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM347593- GM579478_L6 042_RE1_0609 17	Bollinbrook Sunbank Lane, Ringway, WA15 0PY and Bollinbrook, Sunbank Lane, Ringway, Altrincham WA15 0PY	SJ80018444	Walkover only	6 September 2019	6 September 2019	1	Habitat assessment only - scoped out.	MA06	1m east

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH200252_L2 1096_RE1_230 817	Hilltop, Thowler Lane, Millington, Ivy House Farm, Thowler Lane, Millington, Altrincham WA14 3RJ	SJ72078449	Walkover only	23 August 2017	23 August 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM742096_L5 884_RE1_0609 17	Hale Bank Farm, Sunbank Lane, Ringway, WA15 0QA	SJ79808454	Refugia survey	11 May 2018	28 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
CH91775_L43 404_RE1_0509 17	16 Haslemere Avenue, Hale Barns, Altrincham WA15 0AU and 18 Haslemere Avenue, Hale Barns	SJ79338463	Refugia survey	11 May 2018	28 September 2018	7	Presence/absence survey conducted - reptiles assumed absent.	MA06	65m east
GM353579_L4 740_RE1_0111 17	Land lying to the west of Sunbank Lane, Ringway	SJ79458463	Walkover only	1 November 2017	1 November 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM353579_L4 754_RE1_0111 17	Land to the west of Sunbank Lane, Ringway	SJ79558465	Walkover only	1 November 2017	1 November 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM17960_L43 438_RE1_0603 18	Land on the east side of Chapel Lane and land on the south side of Sunbank Lane, Hale	SJ79798476	Walkover only	6 March 2018	6 March 2018	1	Habitat assessment only - scoped out.	MA06	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH448367_L5 212_RE1_1910 17	Moss House Farm, Thowler Lane, Millington, Altrincham, WA14 3RJ	SJ72348483	Refugia survey	9 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
GM385440_L4 992_RE1_0111 17	Land to the south of Hale Road, Hale Barns, Altrincham and land on the north and south sides of the M56 lying to the north of Sunbank Lane, Hale	SJ79988488	Walkover only	1 November 2017	1 November 2017	1	Habitat assessment only - scoped out.	MA06	Within
MAN212521_ L43441_RE1_0 30817	Land to the south of Hale Road, Hale Barns, Altrincham	SJ80078505	Refugia survey	11 May 2018	28 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
CH325341_L5 032_RE1_0908 17	Land on the north-east side of Millington Lane, Millington	SJ73058512	Refugia survey	9 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
CH325341_L5 191_RE1_0908 17	Land on the north-east side of Millington Lane, Millington	SJ72858513	Refugia survey	9 May 2018	27 September 2018	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	82m north
GM629089_L5 813_RE1_0308 17	Land to the north-west of Hasty Lane, Hale Barns	SJ80158551	Refugia survey	11 May 2018	28 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
GM916185_L5 844_RE1_0609 17	Hale Barns Cricket Club, Brooks Drive, Hale Barns, Altrincham, WA15 8TW	SJ80068558	Refugia survey	6 September 2017	28 September 2018	5	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA06	Within
GM112487_L5 841_RE1_0709 17	Flaxhigh Covert lying to the south-east of Brooks Drive, Hale Barns	SJ80138569	Walkover only	7 September 2017	7 September 2017	1	Habitat assessment only - scoped out.	MA06	Within
GM908609_L5 017_RE1_0508 17	Davenport Cottage, Davenport Green Hall, Shay Lane, Hale Barns, Altrincham, WA15 8UD and Davenport Green	SJ80268637	Walkover only	5 August 2017	5 August 2017	1	Habitat assessment only - scoped out.	MA06	7m north-west

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
	Hall, Shay Lane, Hale Barns, Altrincham WA15 8UD								
GM53625- GM686564- LA6860- MAN143601- MAN157151- U201607_L88 31 _RE1_260619	Didsbury Golf Club, Ford Lane, Northenden, Manchester, M22 4NQ	SJ84019012	Refugia survey	26 June 2019	17 September 2019	6	Reptiles assumed absent as majority of survey visits completed and based on local expert knowledge.	MA07	15m south
GM53625- GM686564- LA6860- MAN143601- MAN157151- U200750- U201607_L88 60_RE1_25061 9	Land on the south-east side of Palatine Road	SJ83499073	Refugia survey	26 June 2019	25 September 2019	7	Presence/absence survey conducted - reptiles assumed absent.	MA07	Within
GM686564_L5 033_RE1_2506 19	Land on the north side of Ford Lane, Didsbury	SJ84169074	Refugia survey	25 June 2019	25 September 2019	7	Presence/absence survey conducted - reptiles assumed absent.	MA07	Within

Ecology survey code	Location	OS grid reference	Survey method	Survey start date	Survey end date	No. survey visits completed	Survey result <sup>7</sup> (population size class)	CA	Approximate distance from the land required for the Proposed Scheme (m) and orientation
GM605298_L5 002_RE1_3110 18	Land to the south-west of Gorton Road, Ardwick and land lying to the south- west of Gorton Road, Ardwick, Manchester	SJ86499735	Walkover only	31 October 2018	31 October 2018	1	Habitat assessment only - scoped out.	MA07	Within

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

## Hough to Walley's Green (MA01)

- 2.3.14 The study area is predominantly to the north of Crewe, with most of the route through Crewe in tunnel. The surrounds of the large town are suburban in character, with agricultural land beyond. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.15 Of the 29 sites subject to reptile habitat assessment in MA01, 15 were scoped out and 14 identified as requiring reptile refugia (presence/absence) survey. Of these 14, reptile refugia surveys were completed at 13 sites and partially completed at one. A small slow worm population was confirmed on one site near Coppenhall Junction, south of Larch Wood and north of Spring Farm. No reptiles were recorded at the other 13 sites subject to presence/absence surveys. Reptiles are assumed absent at the single site subject to partially completed survey, as at least four survey visits were completed and no reptiles were recorded.
- 2.3.16 Field surveys for HS2 Phase 2a identified a population of grass snake, 248m from the land required for the construction of the Phase 2b Proposed Scheme, at Wychwood Park Golf Club. Ongoing surveys of the area covered by HS2 Phase 2a have not been undertaken for HS2 Phase 2b.
- 2.3.17 There is anecdotal evidence of grass snake presence at Moss Bridge Marsh Local Wildlife Site, within the land required for the construction of the Proposed Scheme. Access to survey this site was not made available. Surveys of adjacent sites have not recorded reptiles. For the purpose of the assessment, a low population of grass snake is assumed to be present in this area.

## Wimboldsley to Lostock Gralam (MA02)

- 2.3.18 The study area is largely farmland with arable and pasture fields divided by hedgerows. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.19 Of the 50 sites subject to reptile habitat assessment in MA02, 37 were scoped out and 13 identified as requiring refugia (presence/absence) survey. Of these 13 sites, reptile refugia surveys were fully completed at three sites and partially completed at 10. No reptiles were recorded. For the 10 sites subject to partially completed surveys, reptiles are assumed absent at eight of these sites, as at least four survey visits were completed and no reptiles were subject to three survey visits or fewer and therefore absence cannot be assumed.

#### Background Information and Data Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

## Pickmere to Agden and Hulseheath (MA03)

- 2.3.20 The study area is largely farmland with arable and pasture fields divided by hedgerows. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.21 Of the 20 sites subject to reptile habitat assessment in MA03, 17 were scoped out and three identified as requiring reptile refugia (presence/absence) survey. Of these three sites, reptile refugia surveys were fully completed at two sites and partially completed at one. No reptiles were recorded. For the site subject to partially completed surveys, reptiles are assumed absent, as at least four survey visits were completed and no reptiles were recorded.

## **Broomedge to Glazebrook (MA04)**

- 2.3.22 The study area is largely farmland with arable and pasture fields divided by hedgerows. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.23 Of the 16 sites subject to reptile habitat assessment in MA04, 14 were scoped out, access to one was not available, and one was identified as requiring reptile refugia (presence/absence) survey. Reptile refugia surveys were partially completed at this site. For the site subject to partially completed surveys, reptiles are assumed absent, as at least four survey visits were completed and no reptiles were recorded. Common lizard was assumed to be present at one site where access was not available, at land to the west of Glazebrook Lane. The assumption of presence is based on desk study records from within the site and the species being recorded in an adjacent site in MA05.

## **Risley to Bamfurlong (MA05)**

- 2.3.24 The study area is largely farmland with arable and pasture fields divided by hedgerows. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles, with the greatest potential for reptiles in areas associated with the mosses and meres.
- 2.3.25 Of the 45 sites subject to reptile habitat assessment in MA05, 37 were scoped out and eight identified as requiring reptile refugia (presence/absence) survey. Of these eight sites, reptile refugia surveys were fully completed at six sites and partially completed at two. One site, Holcroft Moss, was found to support a low population of common lizard. For the two sites subject to partially completed surveys, reptiles are assumed absent, as at least four survey visits were completed and no reptiles were recorded.

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

## Hulseheath to Manchester Airport (MA06)

- 2.3.26 The study area largely comprises farmland with arable and close-grazed pasture fields divided by hedgerows. Suburban Altrincham is in the north of MA06. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.27 Of the 27 sites subject to reptile habitat assessment in MA06, 14 were scoped out and 13 identified as requiring refugia (presence/absence) survey. Of these 13 sites, reptile refugia surveys were fully completed at three sites and partially completed at 10. No reptiles were recorded. For the 10 sites subject to partially completed surveys, reptiles are assumed absent, as at least four survey visits were completed and no reptiles were recorded.

## **Davenport Green to Ardwick (MA07)**

- 2.3.28 The study area largely comprises the southern suburbs of Manchester. The majority of the Proposed Scheme in this area will be in tunnel below ground. After consultation with Manchester Biodiversity Partnership, Cheshire Wildlife Trust and Lancashire Wildlife Trust, the study area is not considered suitable to support a large or widespread population of reptiles.
- 2.3.29 Of the four sites subject to reptile habitat assessment in MA07, one was scoped out and three identified as requiring refugia (presence/absence) survey. Reptile refugia surveys were partially completed at all three sites. No reptiles were recorded. For the three sites subject to partially completed surveys, reptiles are assumed absent, as at least four survey visits were completed and no reptiles were recorded.

## **Manchester Piccadilly Station (MA08)**

- 2.3.30 The study area entirely comprises the urban centre of Manchester and is considered to be unsuitable for reptiles.
- 2.3.31 No reptile surveys have been undertaken in MA08 and reptiles are assumed to be absent based on the lack of suitable habitat or connectivity.

Ecology and biodiversity BID EC-008-00001 Ecological baseline data – reptiles

# **3 References**

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